

## CLAIMS

1. A duct system comprising:
  - a first duct that guides hot air downward from a hot air generator  
5 disposed thereabove and includes a plurality of hot air supply openings  
at intermediate positions thereof;
  - a second duct that guides cold air upward from a cold air generator  
disposed therebelow and includes a plurality of cold air supply openings  
at intermediate positions thereof; and
  - 10 a third duct that connects the hot air generator and the cold air  
generator and includes a plurality of return openings at intermediate  
positions thereof.
2. A duct system according to Claim 1,
  - 15 comprising a shared supply duct that connects a supply side of the  
hot air generator and a supply side of the cold air generator,  
wherein the first duct and the second duct are produced by dividing  
the shared supply duct using a partitioning means.
- 20 3. A duct system according to Claim 2,  
wherein the partitioning means is a damper or a partitioning plate.
4. A duct system according to Claim 2,  
wherein the hot air generator and the cold air generator  
25 respectively include backflow preventing mechanisms that block an air  
flow in a reverse direction.
5. A storage apparatus comprising:

a hot air generator disposed at an upper part of the storage apparatus;

a cold air generator disposed at a lower part of the storage apparatus;

5 a first duct that guides hot air from the hot air generator downward and includes a plurality of hot air supply openings at intermediate positions thereof;

a second duct that guides cold air from the cold air generator upward and includes a plurality of cold air supply openings at  
10 intermediate positions thereof;

a third duct that connects the hot air generator and the cold air generator and includes a plurality of return openings at intermediate positions thereof; and

a housing that constructs a storage space to which at least one of  
15 the hot air and the cold air is supplied by at least one of the first duct and the second duct and from which internal air is recovered by the third duct.

6. A storage apparatus according to Claim 5,  
comprising a shared supply duct that connects a supply side of the  
20 hot air generator and a supply side of the cold air generator,  
wherein the first duct and the second duct are produced by dividing the shared supply duct using a partitioning means.

7. A storage apparatus comprising:  
25 a hot air generator disposed at an upper part of the storage apparatus;  
a cold air generator disposed at a lower part of the storage apparatus;

a first duct that guides hot air from the hot air generator downward and includes a plurality of hot air supply openings at intermediate positions thereof;

5 a second duct that guides cold air from the cold air generator upward and includes a plurality of cold air supply openings at intermediate positions thereof;

a third duct that connects the hot air generator and the cold air generator and includes a plurality of return openings at intermediate positions thereof; and

10 a display shelf for displaying products that is connected to at least one of the plurality of hot air supply openings and the plurality of cold air supply openings and includes blow openings that blow out at least one of the hot air and the cold air via the display shelf.

15 8. A storage apparatus according to Claim 7,

wherein the display shelf is connected to one of the plurality of hot air supply openings and one of the plurality of cold air supply openings and blows out air that is a mixture of the hot air and the cold air from the blow openings.

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9. A storage apparatus according to Claim 7,

wherein the display shelf includes suction holes and is connected to one of the plurality of return openings so that air is discharged via the display shelf.

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10. A storage apparatus according to Claim 7,

further comprising a housing for constructing a storage space to which at least one of the hot air and the cold air is supplied via the

display shelf and from which internal air is recovered via the third duct.